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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

1315 W. 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

April 23, 1999

Mr. James E. Rasmussen, Director
U.S. Department of Energy
P.O. Box 550, MSIN: A5-15
Richland, Washington 99352



Dear Mr. Rasmussen:

Re: New Wastewater Stream Added to State Waste Discharge Permit Number ST 4500

The Washington State Department of Ecology (Ecology) has reviewed the *Purgewater Wastewater Characterization Study* (99-EAP-216) that was submitted by the United States Department of Energy (USDOE) on April 8, 1999. This purgewater wastewater study was intended to fulfill the requirements in Special Condition S3 of State Waste Discharge Permit ST 4500 (permit) for adding new influent sources to be treated at the 200 Area Effluent Treatment Facility (ETF), and then discharged to the State Approved Land Disposal Site (SALDS). The study proposes that purgewater generated during well sampling, well development, well rehabilitation, and aquifer testing, is appropriate to be added to the permit as an approved stream and that any new constituents of concern can be handled by ETF. ✓ 48603

Ecology is satisfied, based on the information provided, that the purgewater stream can be successfully treated by ETF to meet all permit limits and that ETF treatment would constitute Best Available Technology/All Known, Available, and Reasonable Treatment (BAT/AKART). Therefore, Ecology approves the treatment and discharge of the purgewater stream by ETF.

The addition of the purgewater stream does not require any modification to the wording in the permit. This letter serves as Ecology's authorization to cover this new discharge under the permit. All limitations, conditions, and requirements identified in the permit must be met by the new effluent. USDOE may commence treatment and discharge of the purgewater stream by ETF upon receipt of this letter.

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If you have any further questions, please contact me at (509) 736-3047.

Sincerely,

A handwritten signature in black ink, appearing to read "David S. Dougherty". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

David S. Dougherty, P.E.
200 Area ETF Discharge Permit Manager
Nuclear Waste Program

DD:ld

cc: Doug R. Sherwood, EPA
Alex E. Teimouri, USDOE
William D. Adair, FDH
Janice D. Williams, FDH
Robert D. Haggard, WMH
Eric M. Greager, WMH
John A. Winterhalder, WMH
J. R. Wilkinson, CTUIR
Donna L. Powauke, NPT
Russell Jim, YIN
Mary Lou Blazek, OOE
Administrative Record: Liquid Effluents Consent Order